

HARDNESS CURVES FOR 2 ALLOYS; A) 0.042% Ca, 0.8% Sn, <20 ppm Ag, B) 0.042% Ca, 0.55% Sn, 0.030% Ag.

FIG. 1

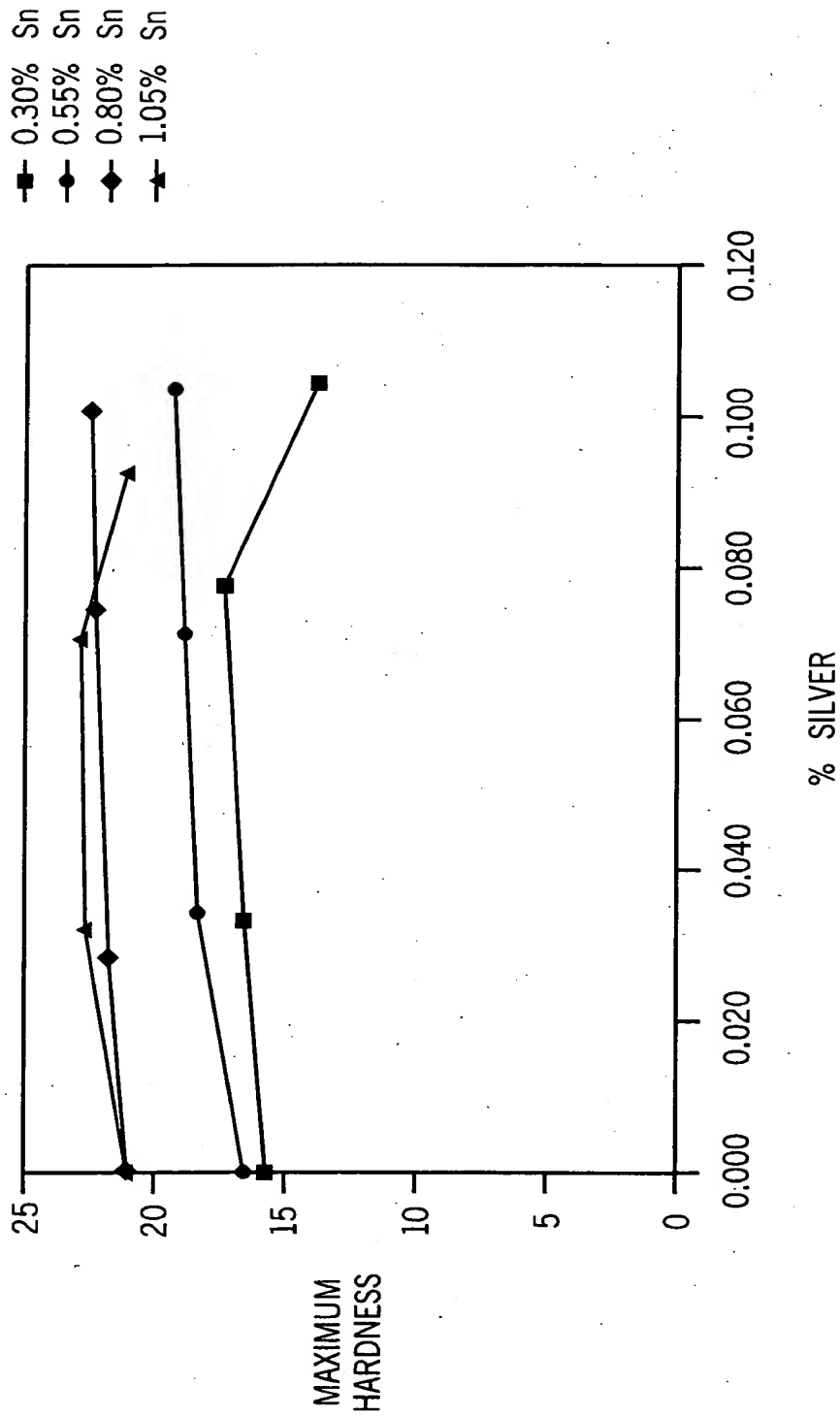


FIG. 2



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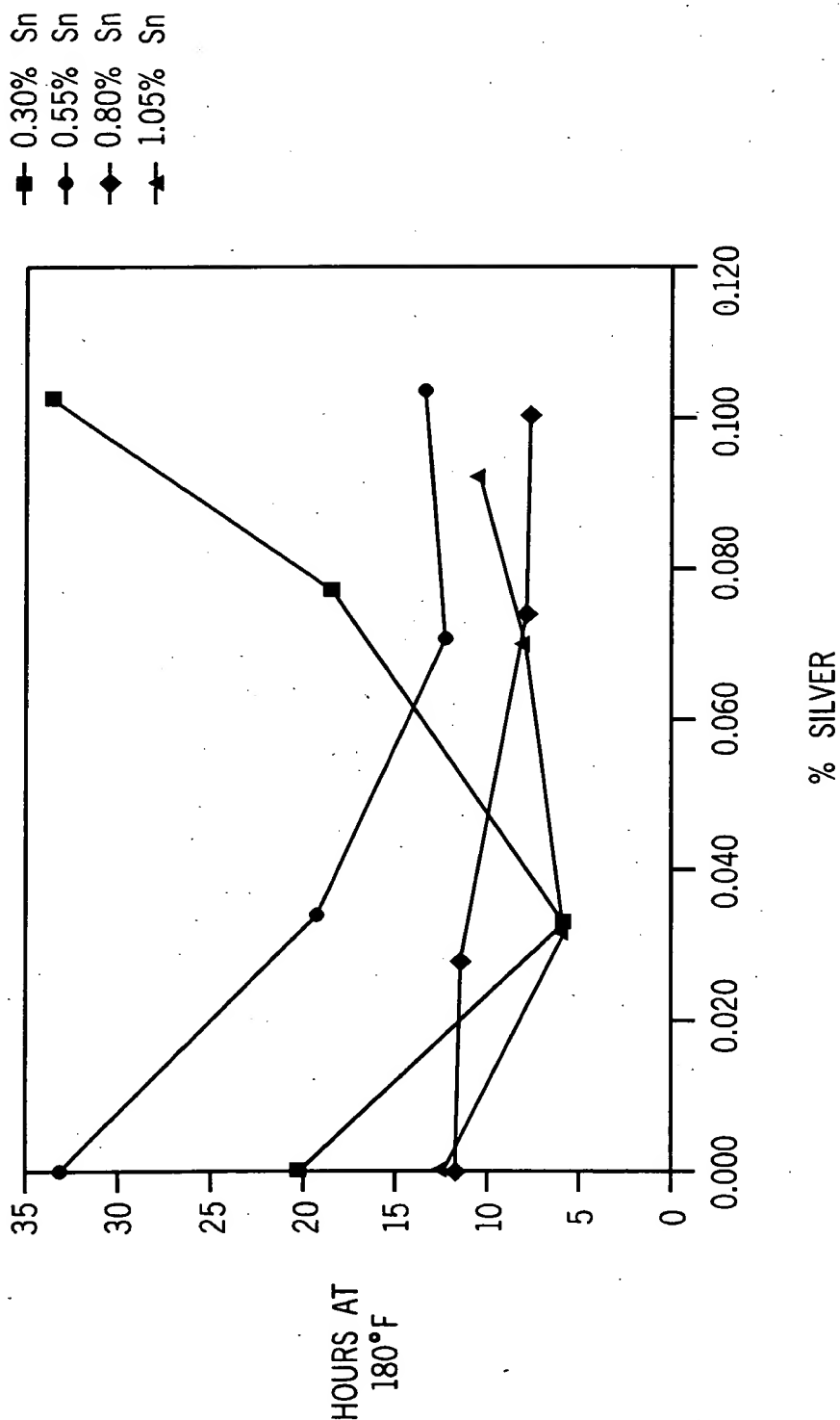


FIG. 3

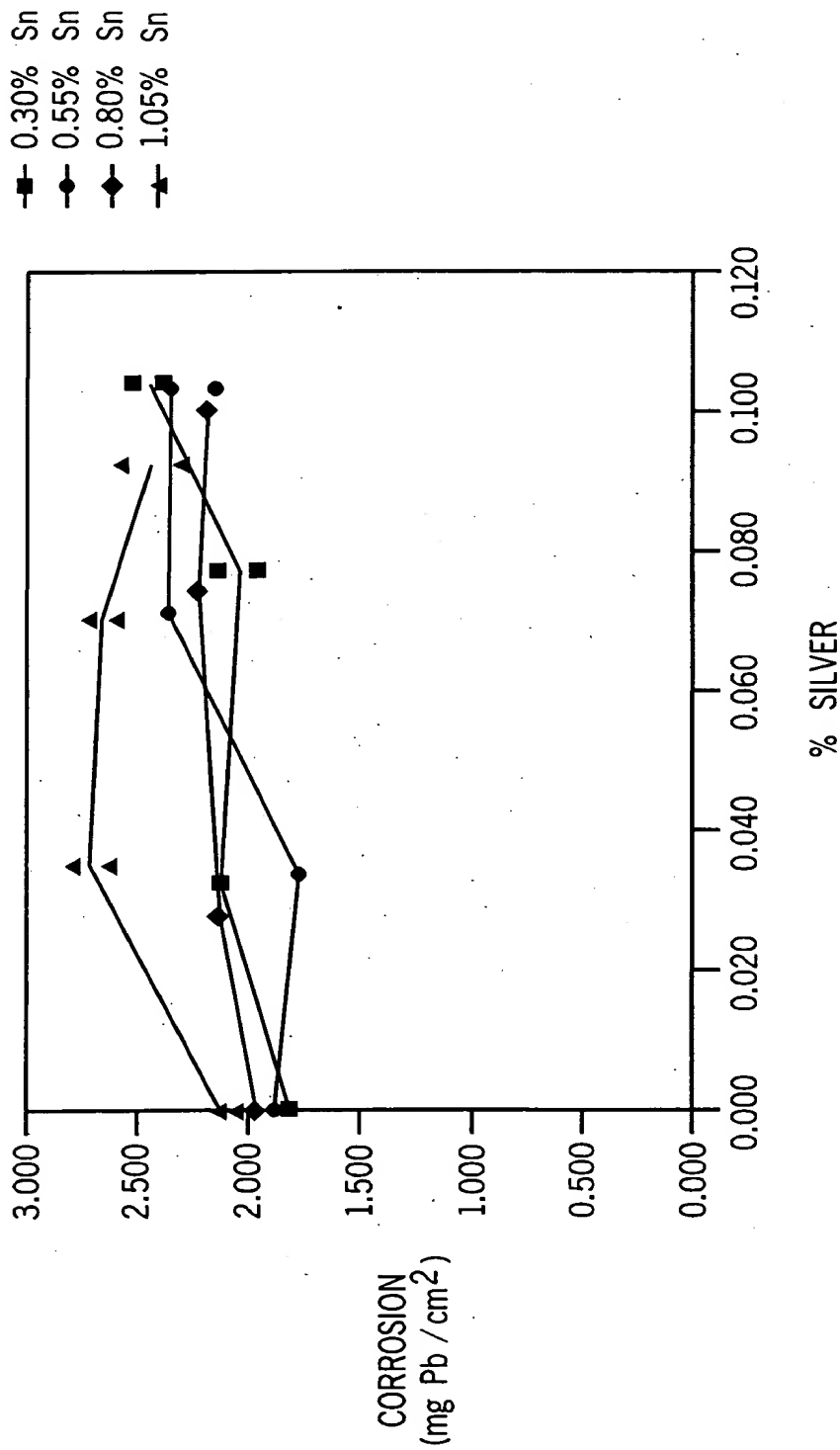
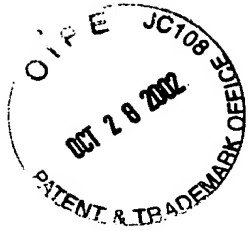
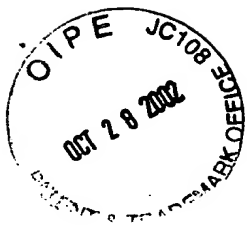


FIG. 4



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■ 0.30% Sn
 ● 0.55% Sn
 ◆ 0.80% Sn
 ▲ 1.05% Sn

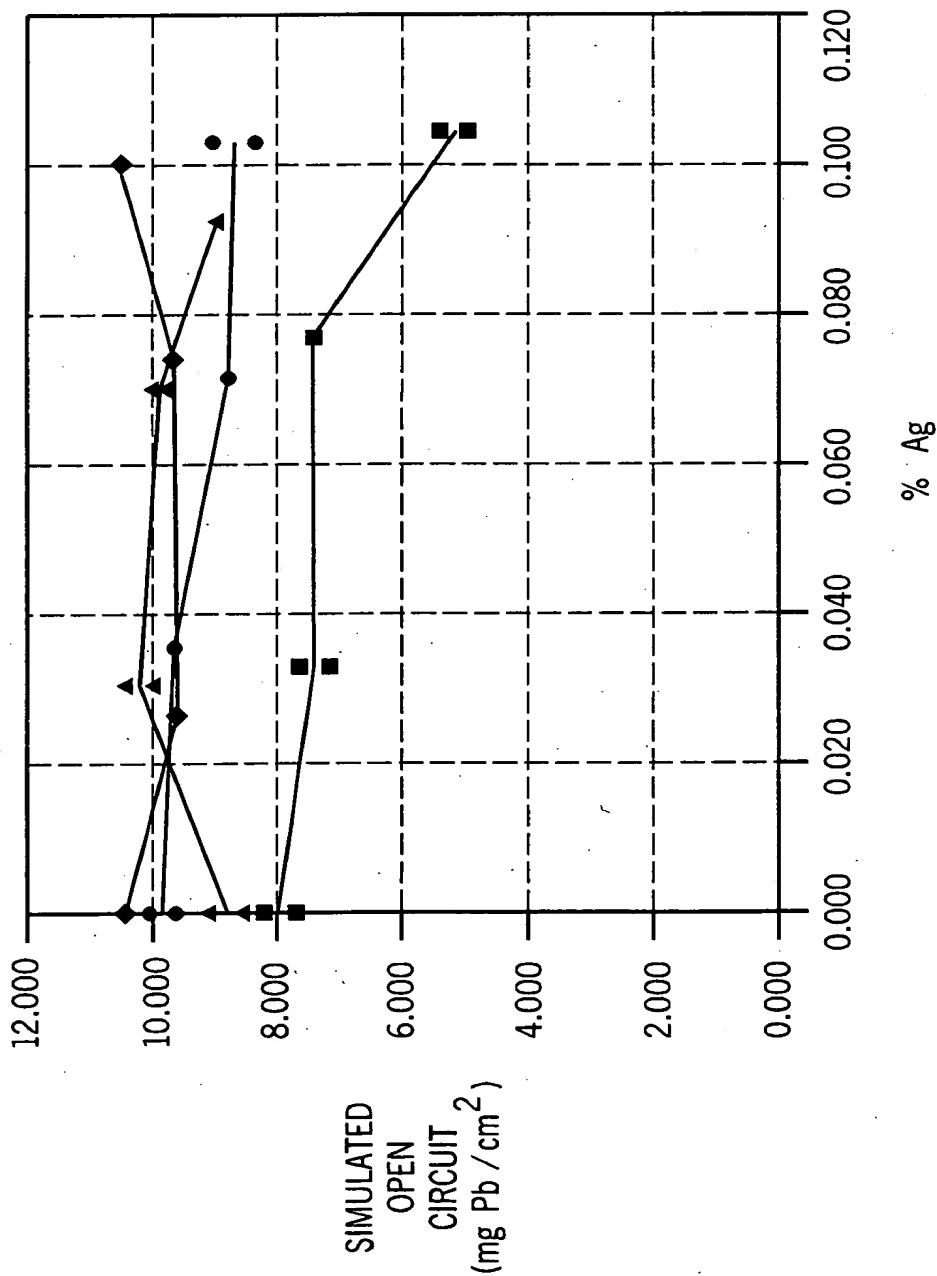


FIG. 5



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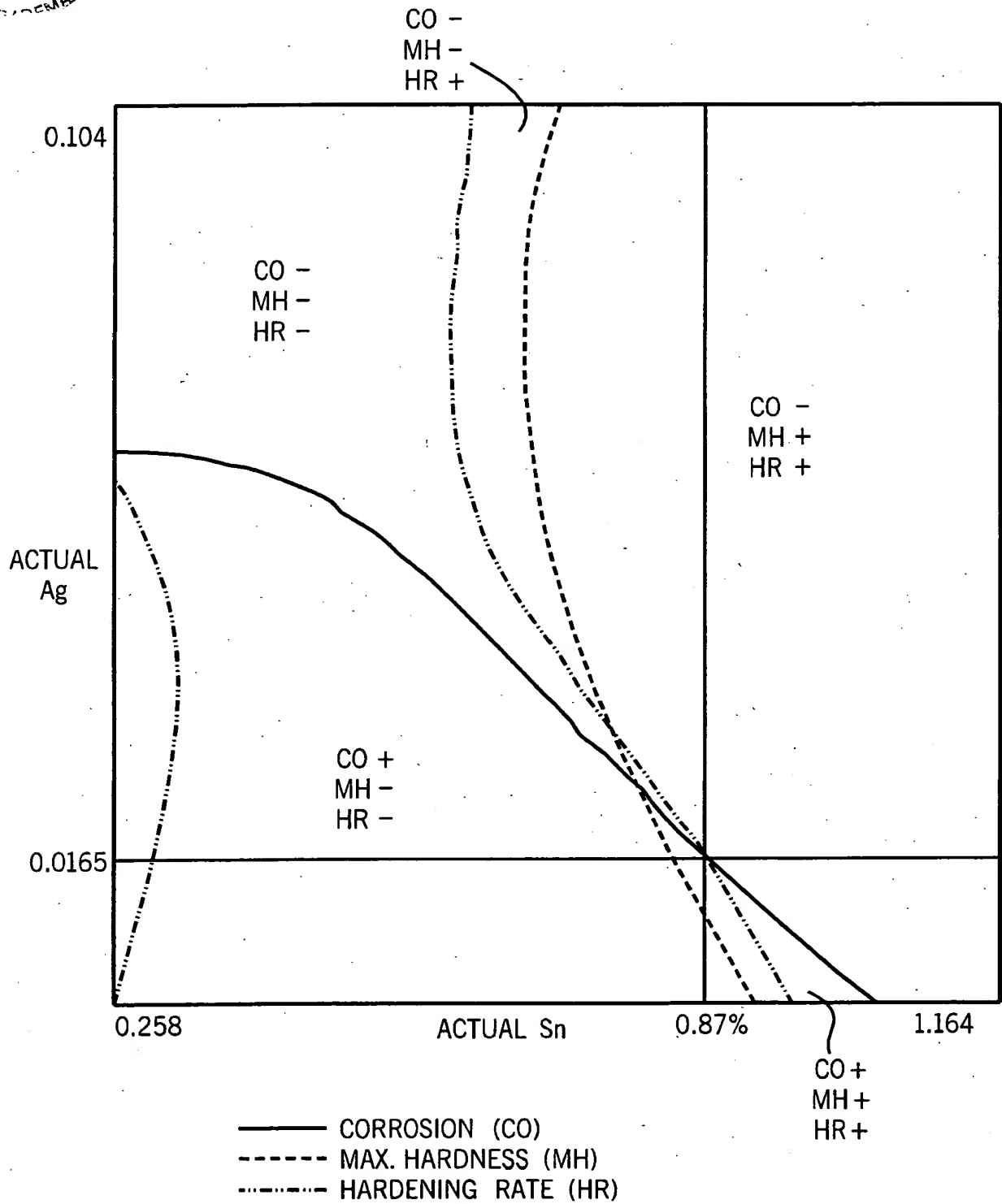


FIG. 6

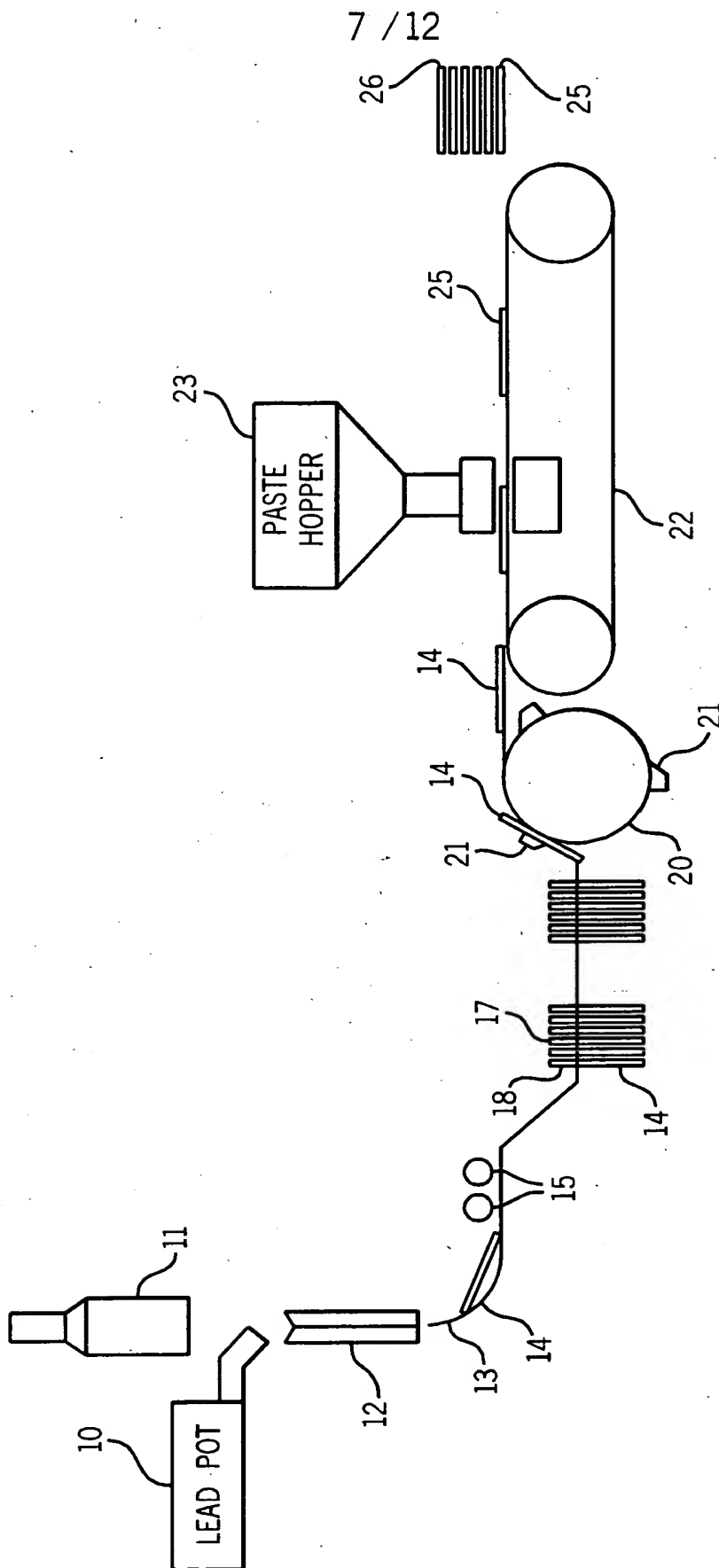


FIG. 7

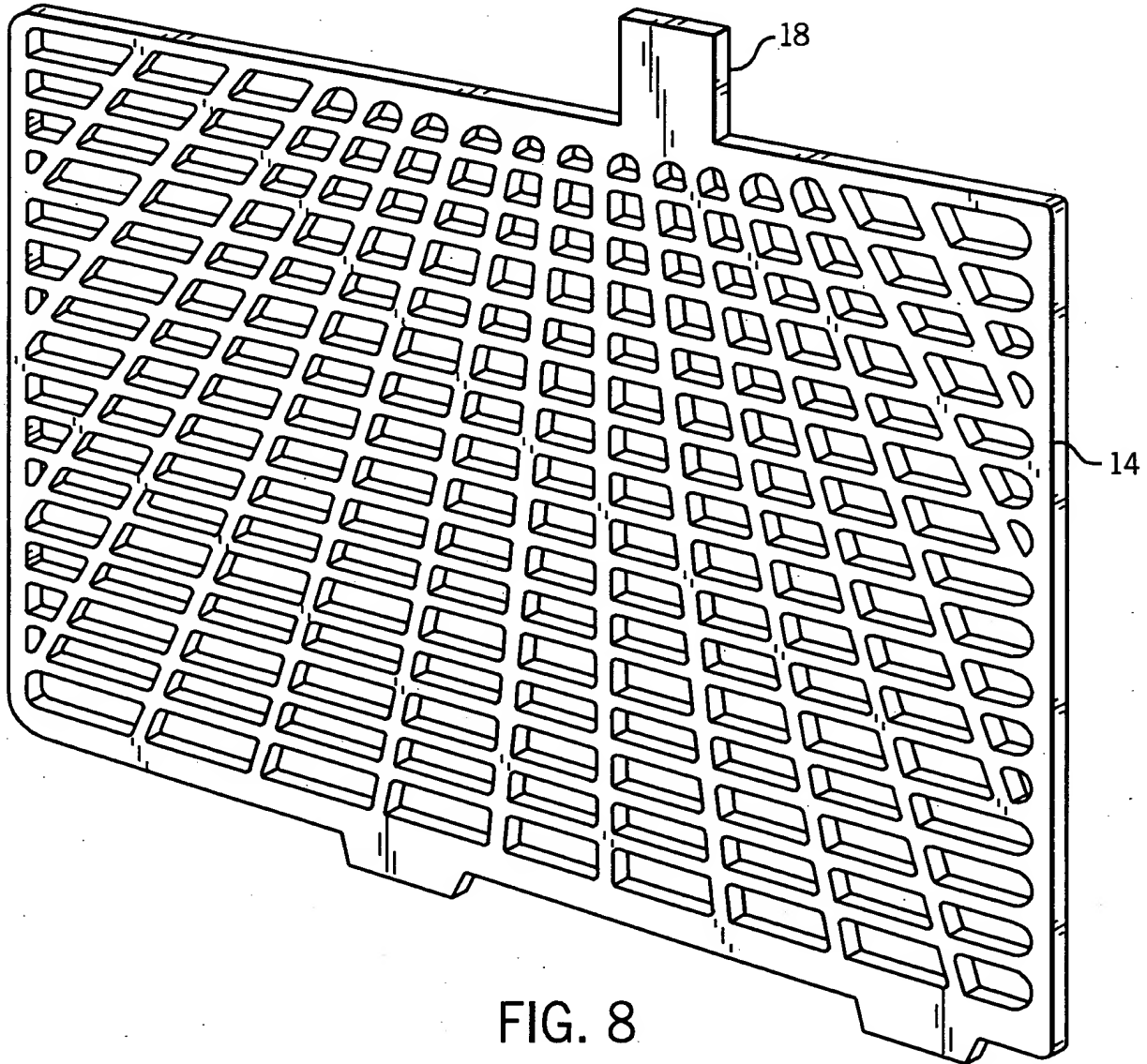


FIG. 8



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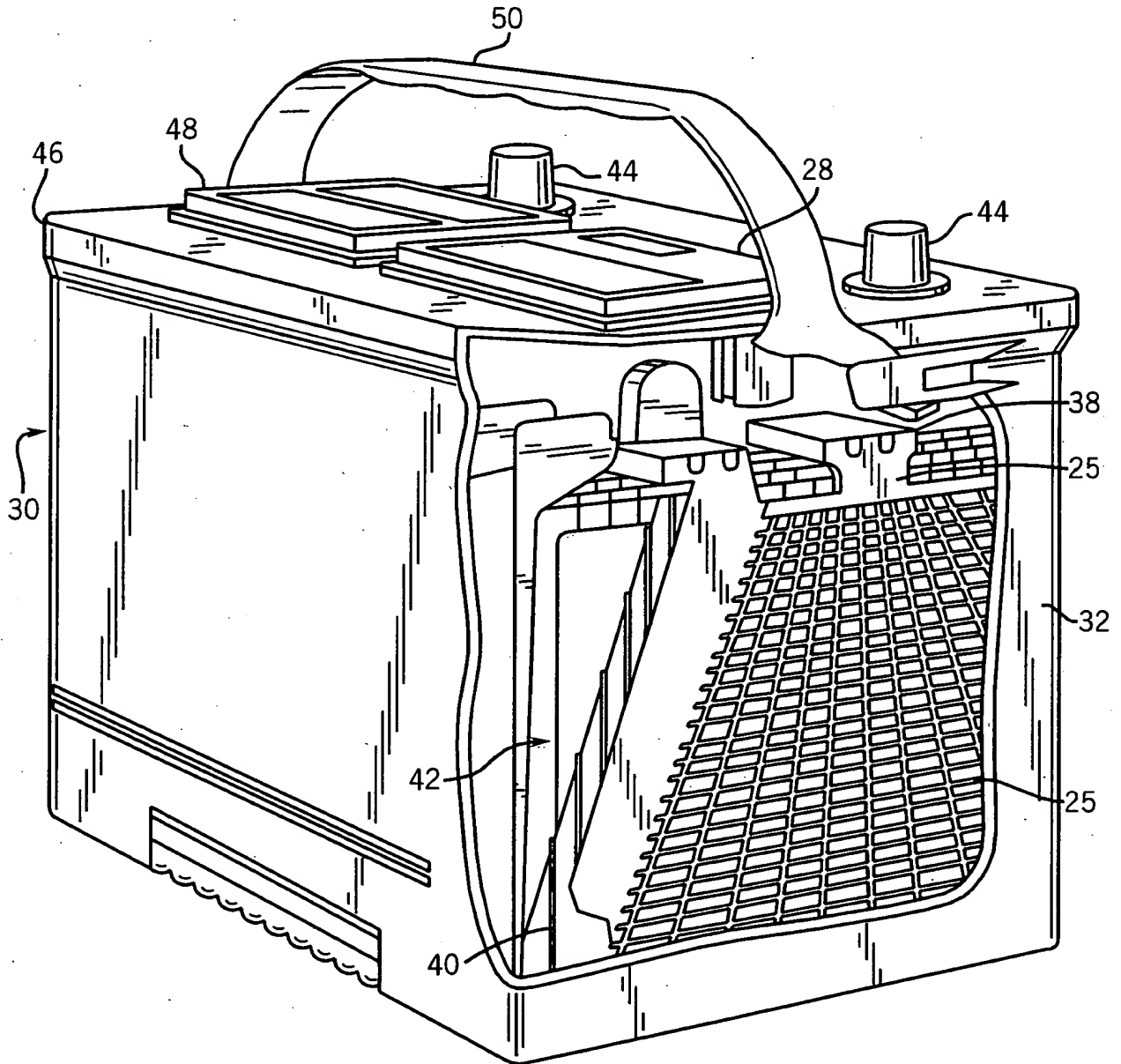


FIG. 9



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GRID CRACKING STUDY - 0.8% TIN

ALL ALLOYS CONTAINED FIXED 0.8% Sn

Ag-CONTENT (%)	GRIDS WITH CRACKS (%)
0.012	6.0
0.013	12.0
0.0144	18.0
0.0174	32.0
0.0197	38.0
0.022	44.0
0.0295	43.4

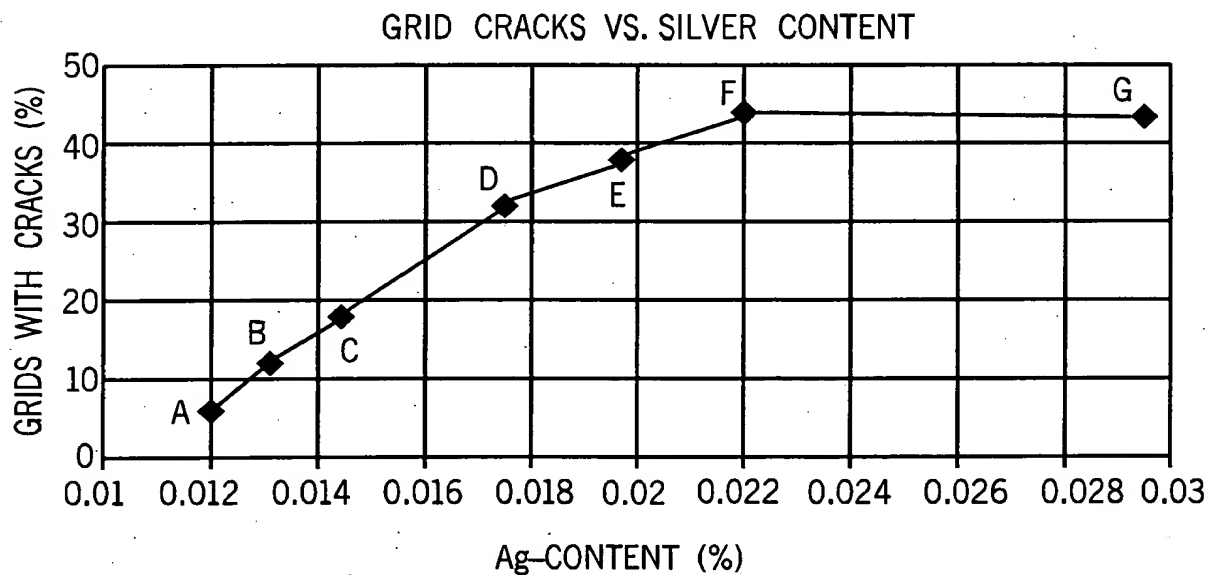


FIG. 10



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GRID CRACKING STUDY - 1.1% TIN

ALL ALLOYS CONTAINED FIXED 1.1% Sn

Ag-CONTENT (%)	GRIDS WITH CRACKS (%)
0.0072	5
0.0102	2
0.0125	9
0.0152	10
0.0174	19
0.0194	21
0.0228	29

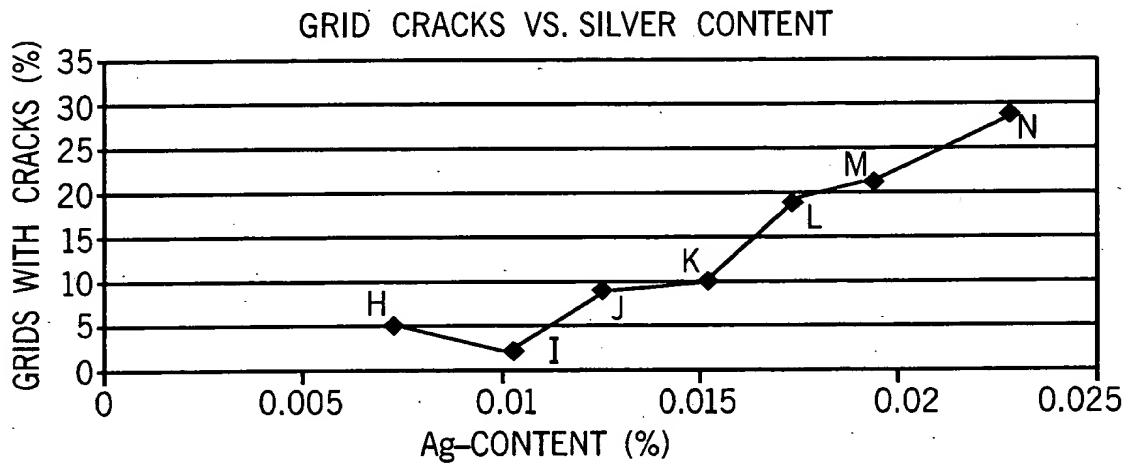


FIG. 11



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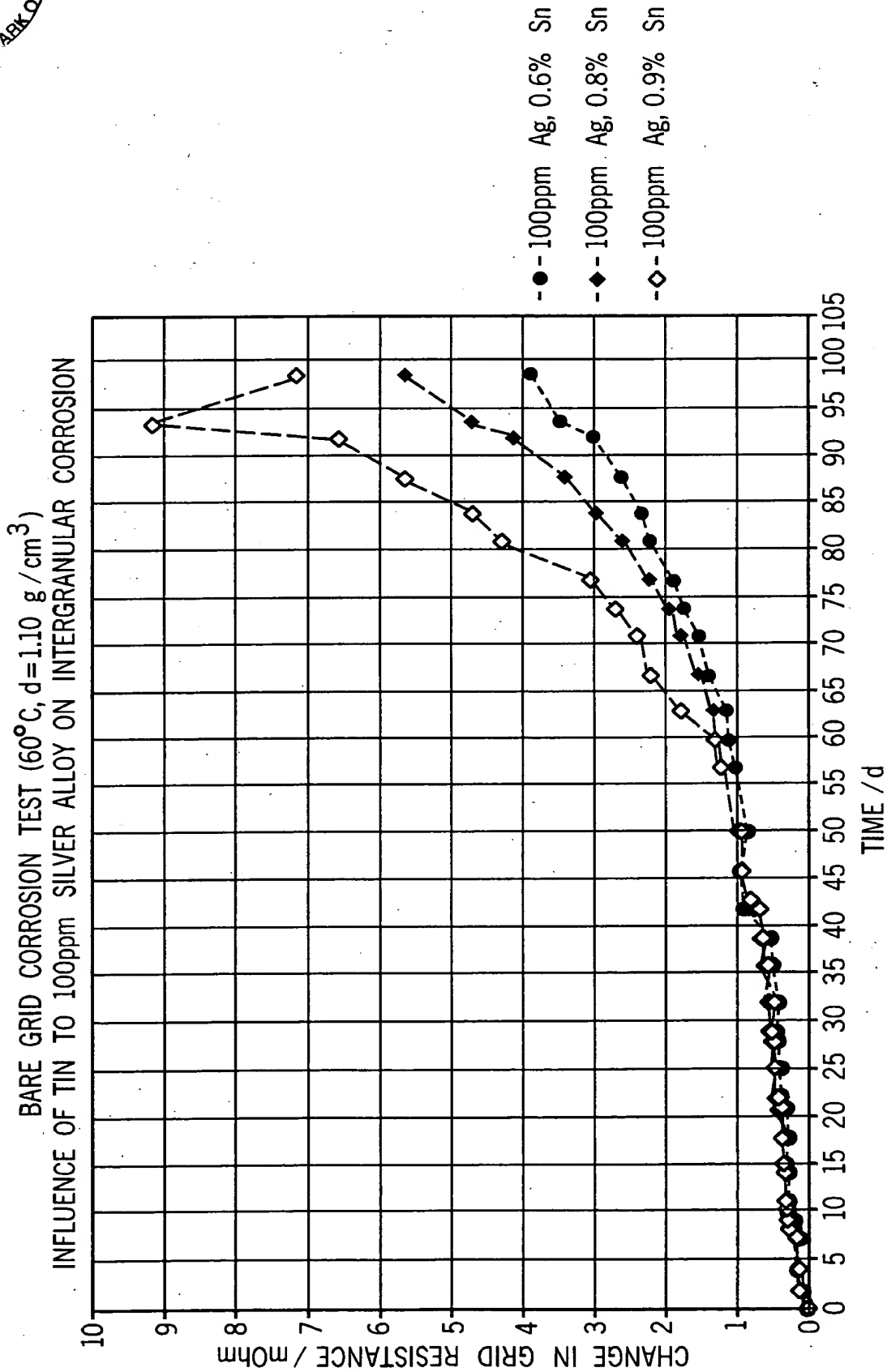


FIG. 12